



The Bee & Butterfly Habitat Fund

North Dakota Monarch Mix

2022

Species	Scientific Name	PLS lbs per acre	Seeds per sq ft	% of Mixture	Bloom Period	Pollinator Value
Big Bluestem, Pawnee	<i>Andropogon gerardii</i>	0.400	1.32	3.76%	--	--
Canada Wildrye	<i>Elymus canadensis</i>	0.400	1.05	2.97%	--	--
Green Needlegrass	<i>Stipa viridula</i>	0.200	0.77	2.19%	--	--
Little Bluestem, VNS	<i>Schizachyrium scoparium</i>	0.350	1.93	5.49%	--	--
Plains Oval Sedge	<i>Carex brevior</i>	0.050	0.74	2.11%	--	--
Prairie Junegrass	<i>Koeleria pyramidata</i>	0.030	1.59	4.52%	--	--
Sideoats Grama, Native Source	<i>Bouteloua curtipendula</i>	0.300	1.10	3.11%	--	--
Western Wheatgrass, Barton	<i>Elymus smithii</i>	0.500	1.31	3.71%	--	--
Anise Hyssop	<i>Agastache foeniculum</i>	0.025	0.83	2.35%	3	5
Aromatic Aster	<i>Aster oblongifolius</i>	0.008	0.95	2.69%	3	5
Ashy Sunflower, Native Source	<i>Helianthus mollis</i>	0.035	0.16	0.46%	3	5
Blackeyed Susan	<i>Rudbeckia hirta</i>	0.040	1.45	4.11%	2	1
Blanketflower	<i>Gaillardia aristata</i>	0.100	0.43	1.21%	1	4
Blue Vervain	<i>Verbena hastata</i>	0.030	1.04	2.94%	2	5
Canada Goldenrod, Native Source	<i>Solidago canadensis</i>	0.005	0.81	2.31%	2	5
Canada Milkvetch	<i>Astragalus canadensis</i>	0.080	0.50	1.41%	2	4
Clasping Coneflower	<i>Rudbeckia amplexicaulis</i> or <i>Dracopis amplexicaulis</i>	0.025	0.92	2.61%	1	2
Common Evening Primrose	<i>Oenothera biennis</i>	0.030	0.95	2.69%	2	4
Common Milkweed	<i>Asclepias syriaca</i>	0.060	0.11	0.32%	2	5
Deer Vetch, Native Source	<i>Acmispon americanus</i> or <i>Lotus unifoliolatus</i>	0.038	0.06	0.17%	3	4
False Boneset	<i>Brickellia eupatorioides</i>	0.010	0.12	0.34%	3	3
False or Oxeye Sunflower	<i>Heliopsis helianthoides</i>	0.140	0.33	0.95%	2	5
Four-point Evening Primrose, Native Source	<i>Oenothera rhombipetala</i>	0.010	0.58	1.64%	2	4
Foxglove Beardstongue	<i>Penstemon digitalis</i>	0.025	0.23	0.65%	1	5
Golden Alexander	<i>Zizia aurea</i>	0.050	0.20	0.57%	1	5
Gray Goldenrod	<i>Solidago nemoralis</i>	0.005	0.12	0.33%	3	4
Grayhead Coneflower	<i>Ratibida pinnata</i>	0.050	0.49	1.39%	2	4
Hoary Vervain	<i>Verbena stricta</i>	0.040	0.54	1.53%	2	5
Illinois Bundleflower	<i>Desmanthus illinoensis</i>	0.250	0.49	1.38%	2	5
Ironweed	<i>Vernonia fasciculata</i>	0.020	0.18	0.50%	2	5
Lanceleaf Coreopsis	<i>Coreopsis lanceolata</i>	0.200	1.01	2.88%	2	4
Late or Giant Goldenrod, Native Source	<i>Solidago gigantea</i>	0.006	1.04	2.96%	3	5
Maximilian Sunflower	<i>Helianthus maximiliani</i>	0.090	0.41	1.15%	3	5
Missouri Goldenrod	<i>Solidago missouriensis</i>	0.005	0.72	2.06%	2	5
New England Aster	<i>Symphyotrichum novae-angliae</i>	0.010	0.24	0.69%	3	5
Phacelia	<i>Phacelia spp.</i>	0.600	3.37	9.58%	2	5
Pitcher Sage	<i>Salvia azurea</i>	0.025	0.17	0.49%	3	5
Plains Bee Balm, Native Source	<i>Monarda pectinata</i>	0.007	0.30	0.84%	2	2
Plains Sunflower	<i>Helianthus petiolaris</i>	0.060	0.16	0.45%	3	5
Prairie Aster	<i>Symphyotrichum falcatum</i>	0.035	0.33	0.93%	3	5
Purple Prairieclover	<i>Dalea purpurea</i>	0.080	0.58	1.65%	2	5
Rough Gayfeather	<i>Liatris aspera</i>	0.020	0.13	0.36%	3	5
Rough Purple Gerardia, Native Source	<i>Agalinis aspera</i>	0.005	0.24	0.69%	2	4
Roundhead Lespedeza	<i>Lespedeza capitata</i>	0.030	0.12	0.34%	3	4
Shell-leaf Penstemon	<i>Penstemon grandiflorus</i>	0.025	0.12	0.35%	1	5
Showy Milkweed	<i>Asclepias speciosa</i>	0.040	0.06	0.18%	2	5
Showy Partridgepea	<i>Chamaecrista fasciculata</i>	0.300	0.45	1.27%	2	5
Smooth Blue Aster	<i>Symphyotrichum laeve</i>	0.015	0.35	0.99%	3	5
Stiff Goldenrod	<i>Solidago rigida</i>	0.020	0.31	0.88%	3	5
Stiff Sunflower	<i>Helianthus pauciflorus</i>	0.020	0.34	0.96%	2	4
Tall Boneset	<i>Eupatorium altissimum</i>	0.025	0.46	1.30%	3	4
Upright Coneflower	<i>Ratibida columnifera</i>	0.040	0.68	1.92%	2	2
Western Yarrow	<i>Achillea millefolium</i>	0.015	0.98	2.79%	1	2
White Prairieclover	<i>Dalea candida</i>	0.060	0.42	1.19%	2	5
Wild Bergamot	<i>Monarda fistulosa</i>	0.030	0.88	2.49%	2	5
Willow-leaf Sunflower, Native Source	<i>Helianthus salicifolius</i>	0.050	0.08	0.23%	3	5
Rice Hulls - Filler for low planting rate mixtures		3.000	0.00	0.00%	--	--
Grasses Total:		2.230	9.818	27.86%		
Wildflower/Forb/Legume Total:		2.889	25.422	72.14%		
Filler Total:		3.000	0.000	0.00%		
Total Mixture:		8.119	35.240	100.00%		

Bloom Period	Wildflowers Used in Mixture	% PLS Seeding Rate of Mix
1 = April to May	6	8.18%
2 = June to July	24	46.87%
3 = August to October	18	17.10%
Total :	48	

4.38	Pollinator Value (0-5)
<p><i>The Pollinator value score is determined based on a combination of factors described below. A score greater than 4.0 indicates the mixture is designed for great pollinator value.</i></p>	